

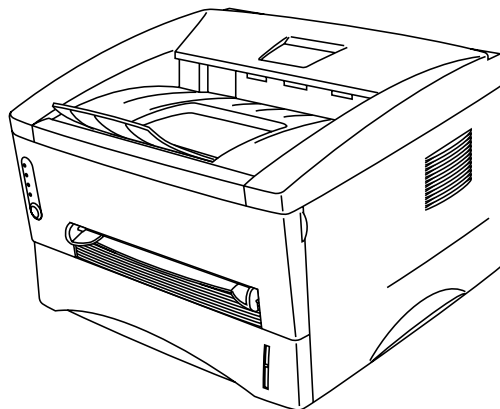


# Brother Laser Printer **PARTS REFERENCE LIST**

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**MODEL:HL-1230/1440/1450/1470N**



Read this list thoroughly before maintenance work.

Keep this list in a convenient place for quick and easy reference at all times.

## NOTE FOR USING THIS PARTS REFERENCE LIST

1. In the case of ordering parts, it needs mentioning the following items:

- (1) Code
- (2) Q'ty
- (3) Description
- (4) Symbol ( PCB No., Revision , and Parts location mounted on the PCB.)

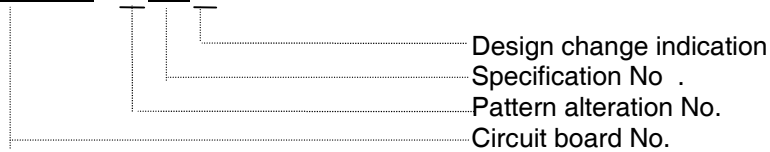
*Note : No orders without Parts Code or Tool No. can be accepted.*

< Example >

	(1)	(2)	(3)	(4)	
REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK

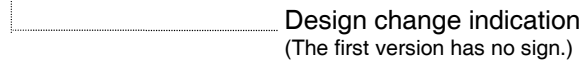
Revision No.: marked on the **main printed circuit board**.

**B48K056 - 201A**



Revision No.: marked on the **power supply printed circuit board**.

**Rev. A**



2. Design-changed parts :

If the parts are changed, any one of the following symbols is indicated in the REMARKS column.

- #A : Compatible between old and new
- #B : Replaceable from old to new
- #D : Incompatible
- # : Newly established

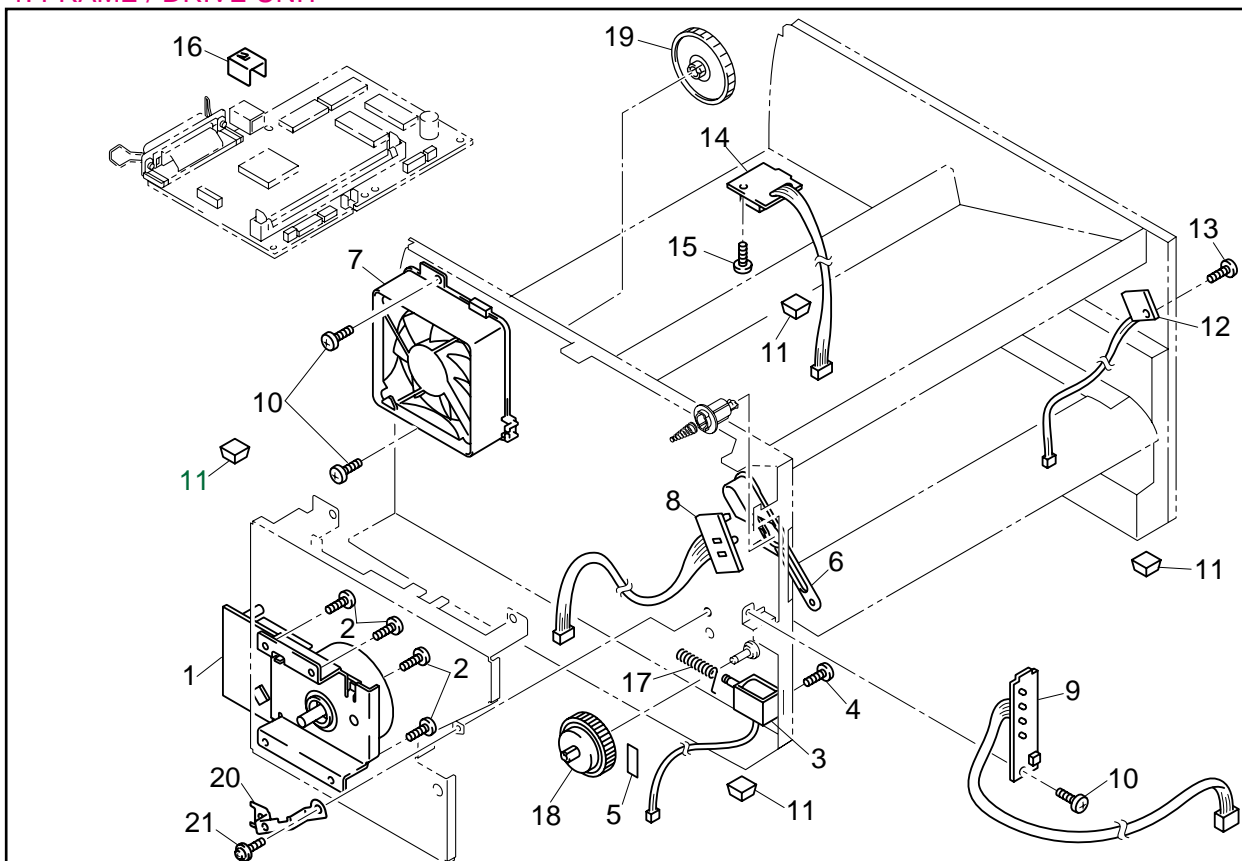
3. The original of this list was made based on the information available in May 2001.

4. Parts are subject to change in design without prior notice.

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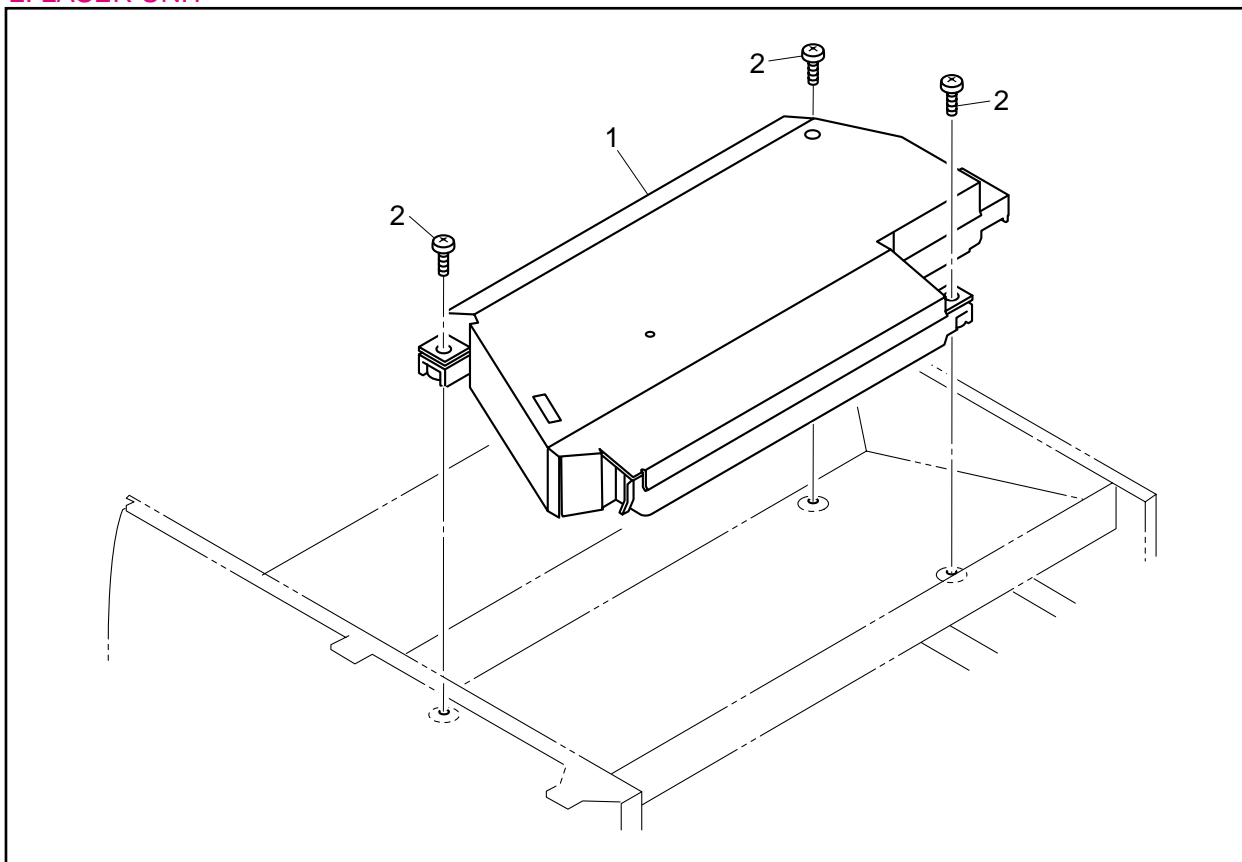
1.	<u>FRAME / DRIVE UNIT</u> .....	1
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## 1. FRAME / DRIVE UNIT



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-010

## 2. LASER UNIT



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-020

## 1. FRAME / DRIVE UNIT

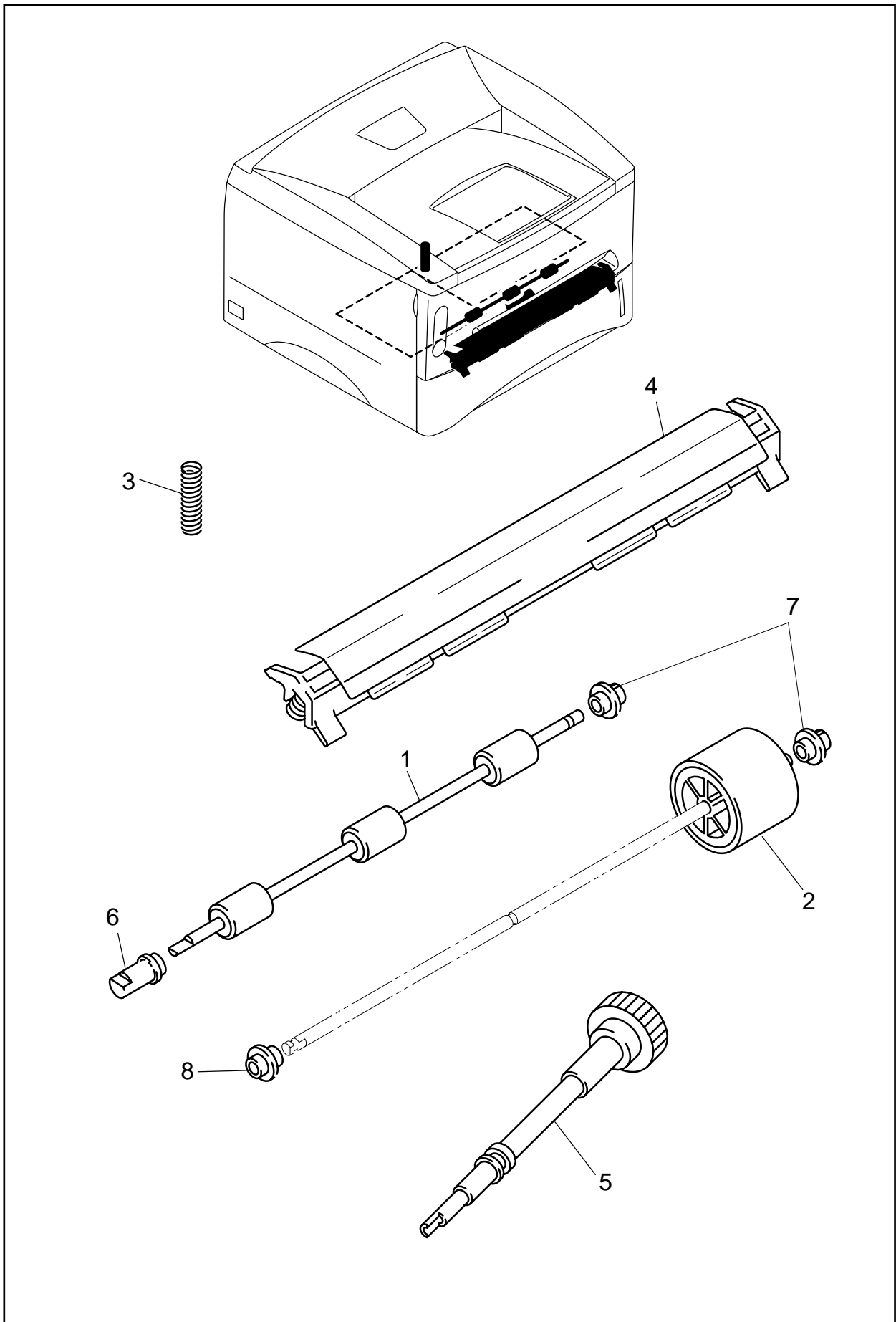
REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LE1744001	1	MAIN MOTOR ASSY/E		
2	087320616	4	TAPTITE, CUP S M3X6		
3	LJ5701001	1	SOLENOID ASSY/E		
4	000300415	1	SCREW, BIND M3X4		
5	LJ4432001	4	TAPE 32X12		
6	UL8984001	1	LINK		
7	LJ4745001	1	FAN MOTOR UNIT		
8	LJ5704001	1	TONER EMPTY LED PCB UNIT E (Light emission)	B512038-4	
9	UK4405001	1	PANEL PCB ASSY	B512048-3	
10	087320616	3	TAPTITE, CUP S M3X6		
11	UL8507001	4	RUBBER FOOT		
12	UL9104001	1	TONER EMPTY PCB UNIT (Light reception)	B512037-2	
13	087320616	1	TAPTITE, CUP S M3X6		
14	LJ8031001	1	LT RELAY PCB ASSY (HL-1450/1470N)	B512060-1	
15	087320616	1	TAPTITE, CUP S M3X6		
16	LE1169001	1	USB GROUND PLATE (HL-1440 Europe)		
17	LJ5703001	1	SOLENOID RELEASE SPRING/E		
18	LJ5591001	1	PLANET GEAR ASSY (SP)		
18	LJ5838001	1	PLANET GEAR ASSY B (SP)		
19	UL8985001	1	GEAR 59		
20	LJ5705001	1	GEAR 21 PRESSURE PLATE		
21	087320616	1	TAPTITE, CUP S M3X6		

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-010

## 2. LASER UNIT

REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ5828001	1	LASER UNIT E (SP)		
2	087321615	3	TAPTITE, CUP S M3X16		

### 3. PAPER FEED



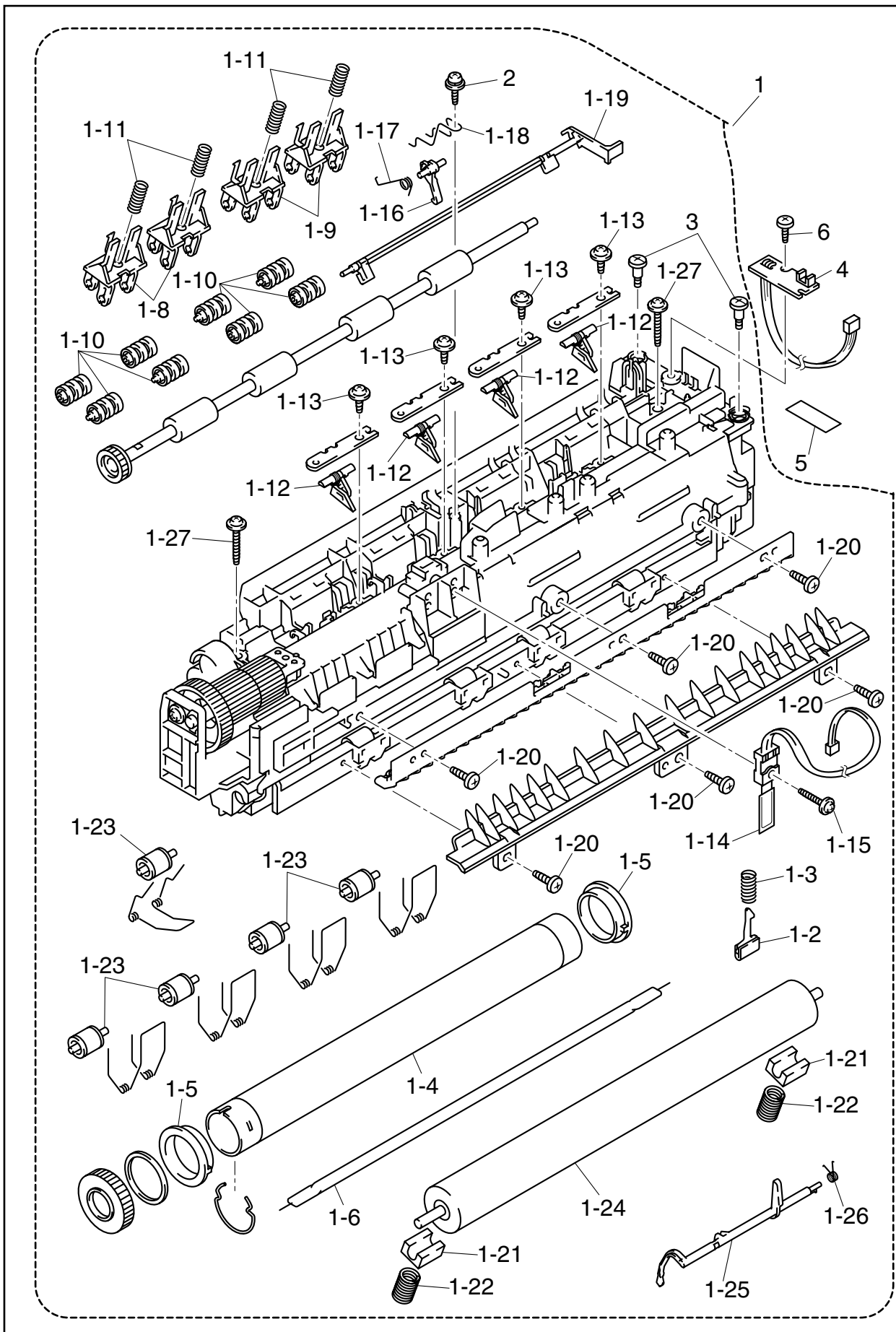
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-040

### 3. PAPER FEED

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	UL9060001	1	PAPER FEED ROLLER ASSY	
2	UL9066001	1	PAPER PICK-UP ROLLER ASSY	
3	LJ4499001	1	TR ELECTRODE HELICAL SPRING	
4	LJ4843001	1	OUTER CHUTE 1 (SP)	
5	UL9070001	1	GEAR 21	
6	UL9059001	1	JOINT 5	
7	UL9062001	2	BEARING 5	
8	UL9069001	1	CONDUCTOR BEARING 5	

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-040

#### 4. FIXING UNIT



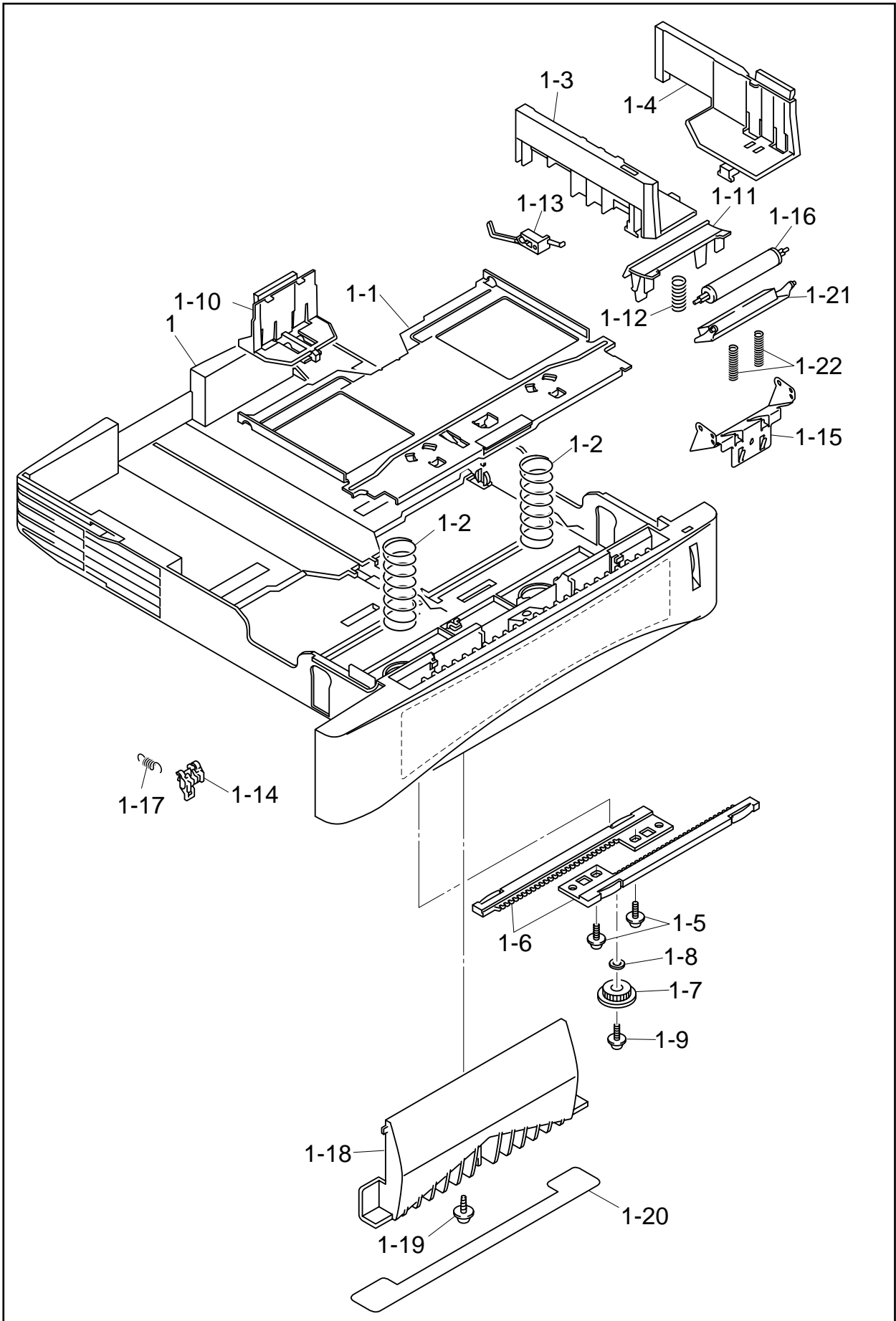
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-050



#### 4. FIXING UNIT

REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ5829001	1	FIXING UNIT, 115V (SP)	B512096-1	
1	LJ5830001	1	FIXING UNIT, 230V (SP)		
1-2	LJ5682001	1	CLEANER ASSY E		
1-3	UH3635001	1	CLEANER SPRING 30		
1-4	LJ5684001	1	HEAT ROLLER 25		
1-5	UL8908001	2	HR BEARING 25		
1-6	LJ5685001	1	HALOGEN LAMP, 115V		
1-6	LJ5695001	1	HALOGEN LAMP, 230V		
1-8	LJ5276001	2	EJECT PINCH ROLLER HOLDER L		
1-9	LJ5277001	2	EJECT PINCH ROLLER HOLDER R		
1-10	LJ5278001	8	EJECT PINCH ROLLER		
1-11	LJ5279001	4	EJECT PINCH SPRING		
1-12	LJ5280001	4	SEPARATE CLAW ASSY 2		
1-13	087310615	4	TAPTITE, CUP B M3X6		
1-14	LJ5686001	1	THERMISTOR ASSY		
1-15	085311216	1	TAPTITE, BIND B M3X12		
1-16	LJ5734001	1	EJECT ACTUATOR 2		
1-17	LJ5732001	1	EJECT ACTUATOR SPRING 2		
1-18	LJ5736001	1	ACTUATOR HOLDER		
1-19	LJ5735001	1	EJECT ACTUATOR 3		
1-20	085311015	6	SCREW,BIND B TITE 3X10		
1-21	UL8916001	2	PR BEARING		
1-22	LJ5690001	2	PR SPRING		
1-23	LJ5268001	5	CLEANER PINCH ROLLER ASSY		
1-24	LJ5287001	1	PRESSURE ROLLER 25		
1-25	UL8920001	1	PAPER EJECT ACTUATOR		
1-26	UL8921001	1	EJECT ACTUATOR SPRING		
1-27	087312015	1	TAPTITE, CUP B M3X20		
2	Z07200001	1	TAPTITE, PAN B M3X10		
3	LJ4740001	2	SHOULDER SCREW		
4	LJ8841001	1	JAM SENSOR PCB ASSY		
5	LJ4432001	1	TAPE 32X12		
6	085311015	1	SCREW,BIND B TITE 3X10		

## 5. PAPER CASSETTE



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-045/047

### 5-1. PAPER CASSETTE, LGL

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LE1162001	1	PAPER TRAY UNIT LGL (SP)	
1-1	LJ4537001	1	PRESSURE PLATE ASSY, LGL	
1-2	UL9077001	2	PRESSURE PLATE SPRING	
1-3	UL9078001	1	SIDE GUIDE L	
1-4	UL9079001	1	SIDE GUIDE R	
1-5	U73515001	2	TAPTITE, CUP B M2.6X5	
1-6	UL9080001	2	SIDE GUIDE RACK	
1-7	UL9081001	1	SIDE GUIDE GEAR	
1-8	UL9082001	1	FRICTION SPRING	
1-9	087310815	1	TAPTITE, CUP B M3X8	
1-10	UL9083001	1	REAR PAPER GUIDE	
1-11	UL9084001	1	SEPARATION PAD HOLDER ASSY	
1-12	UL9090001	1	SEPARATION PAD SPRING	
1-13	UL9091001	1	PAPER INDICATOR	
1-14	UL9092001	1	LOCK LEVER	
1-15	LJ4534001	1	PRESSURE ROLLER HOLDER ASSY	
1-16	LJ4892001	1	PRESSURE ROLLER COLLAR 2 ASSY	
1-17	UL9095001	1	RELEASE LEVER EXTENSION SPRING	
1-18	LJ4197001	1	PAPER TRAY COVER	
1-19	UF8709001	1	TAPTITE, TORX PAN B M3X8	
1-20	LJ4272001	1	TRAY COVER FILM	
1-21	LJ4221001	1	SCRATCH SPONGE HOLDER ASSY	
1-22	LJ4200001	2	SCRATCH SPONGE SPRING	

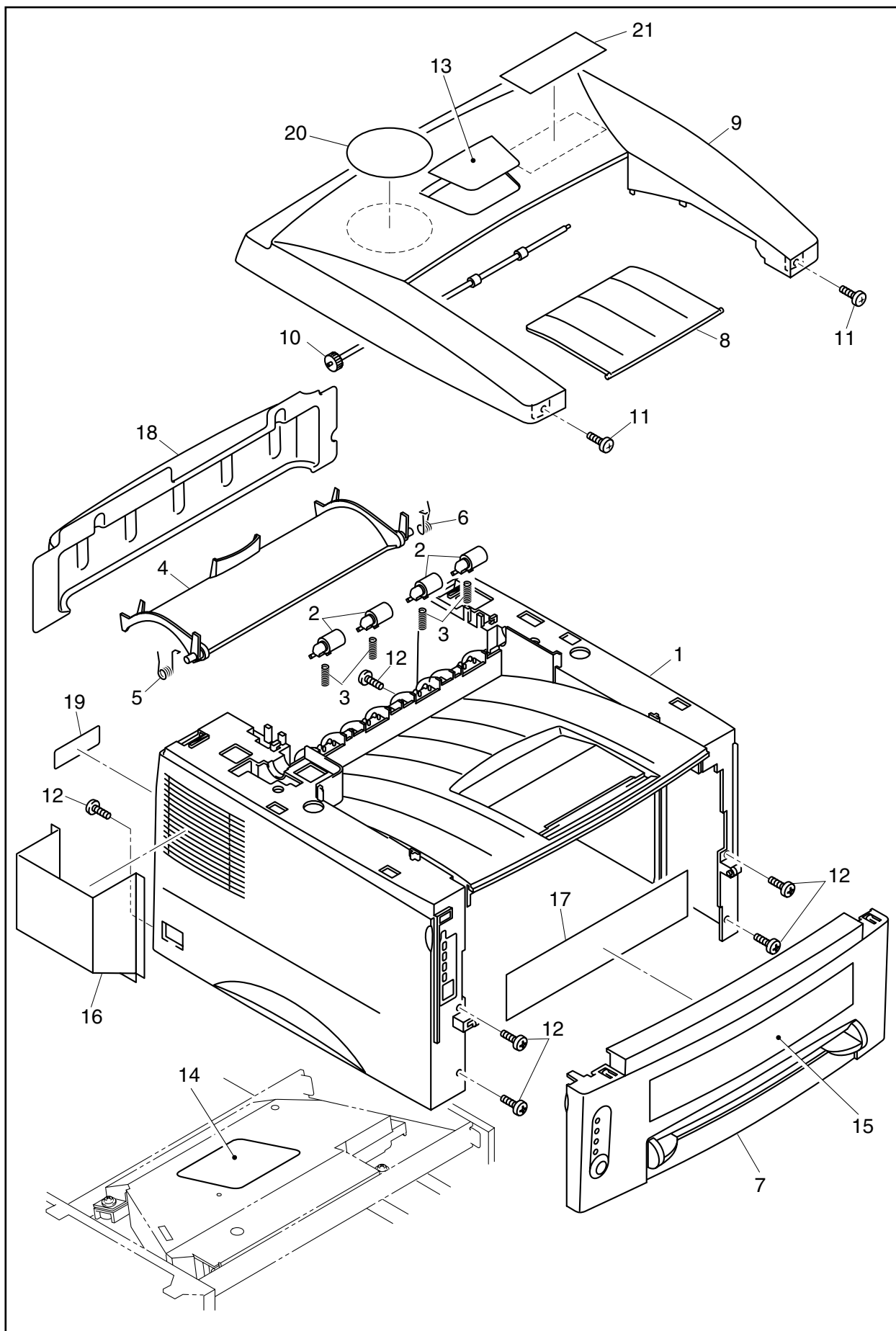
MODEL HL-1230/1440/1450/1470/1470N 84U-Z31/Z32/Z33/Z34-045/046

### 5-2. PAPER CASSETTE, A4

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LJ4181001	1	PAPER TRAY UNIT A4 (SP)	
1-1	UL9074001	1	PRESSURE PLATE ASSY, A4	
1-2	UL9077001	2	PRESSURE PLATE SPRING	
1-3	UL9078001	1	SIDE GUIDE L	
1-4	UL9079001	1	SIDE GUIDE R	
1-5	U73515001	2	TAPTITE, CUP B M2.6X5	
1-6	UL9080001	2	SIDE GUIDE RACK	
1-7	UL9081001	1	SIDE GUIDE GEAR	
1-8	UL9082001	1	FRICTION SPRING	
1-9	087310815	1	TAPTITE, CUP B M3X8	
1-10	UL9083001	1	REAR PAPER GUIDE	
1-11	UL9084001	1	SEPARATION PAD HOLDER ASSY	
1-12	UL9090001	1	SEPARATION PAD SPRING	
1-13	UL9091001	1	PAPER INDICATOR	
1-14	UL9092001	1	LOCK LEVER	
1-15	LJ4196001	1	PRESSURE ROLLER HOLDER	
1-16	LJ4892001	1	PRESSURE ROLLER COLLAR 2 ASSY	
1-17	UL9095001	1	RELEASE LEVER EXTENSION SPRING	
1-18	LJ4197001	1	PAPER TRAY COVER	
1-19	UF8709001	1	TAPTITE, TORX PAN B M3X8	
1-20	LJ4272001	1	TRAY COVER FILM	
1-21	LJ4221001	1	SCRATCH SPONGE HOLDER ASSY	
1-22	LJ4200001	2	SCRATCH SPONGE SPRING	

MODEL HL-1230/1440/1450/1470/1470N 84U-Z31/Z32/Z33/Z34-045/046

## 6. COVERS



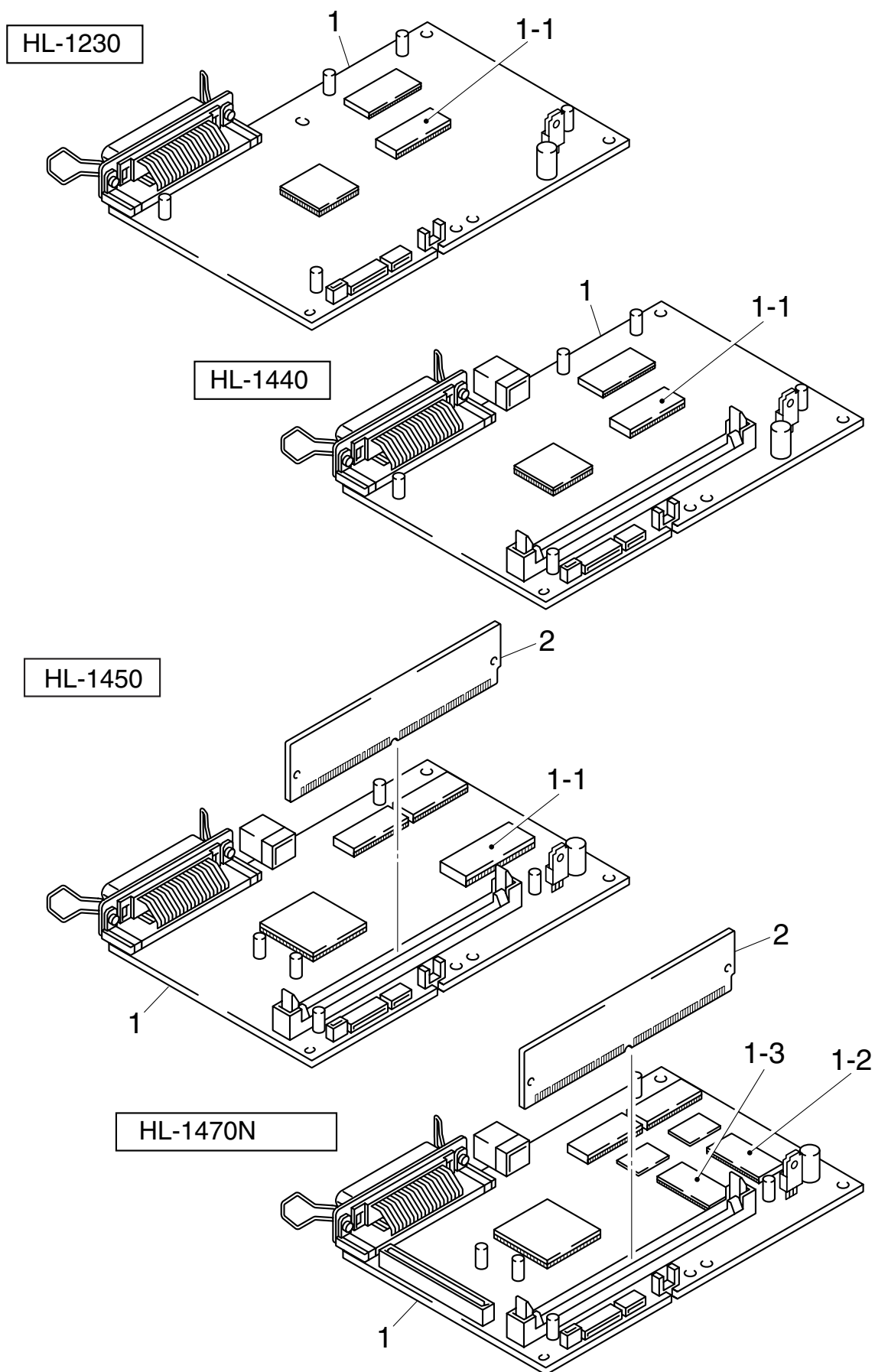
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-060

## 6. COVERS / LABELS

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LJ5751001	1	MAIN COVER ASSY ZLE	
2	UL9122001	4	PINCH ROLLER ASSY	
3	UL9125001	4	PINCH ROLLER SPRING	
4	LJ5763001	1	REAR COVER	
5	UL9127001	1	REAR COVER SPRING L	
6	UL9128001	1	REAR COVER SPRING R	
7	UL9129002	1	FRONT COVER ASSY	
8	UL9140001	1	TRAY EXTENSION FLAP	
9	UL9088001	1	TOP COVER	
10	UL9142001	1	SECOND EJECT ROLLER ASSY	
11	087321015	2	TAPTITE, CUP S M3X10	
12	085320816	6	TAPTITE, BIND S M3X8	
13	LJ5727001	1	BROTHER EMBLEM 1230	
13	LJ5667001	1	BROTHER EMBLEM 1440	
13	LJ5714001	1	BROTHER EMBLEM 1450	
13	LJ5739001	1	BROTHER EMBLEM 1470N	
14	UL6740001	1	LASER CAUTION LABEL EUR	
15	LJ5728001	1	MYLAR LABEL 1230 CAN	
15	LJ5731001	1	MYLAR LABEL 1230 EUR	
15	LJ5671001	1	MYLAR LABEL 1440 US-A	
15	LJ5706001	1	MYLAR LABEL 1440 EUR	
15	LJ5715001	1	MYLAR LABEL 1450 US	
15	LJ5718001	1	MYLAR LABEL 1450 EUR	
15	LJ5740001	1	MYLAR LABEL 1470N US	
15	LJ5743001	1	MYLAR LABEL 1470N EUR	
16	LJ4905001	1	FAN GUARD	
17	LJ5669001	1	PROCESS UNIT OP LABEL E	
18	LJ4855001	1	TRAY REAR COVER ASSY	
19	UH0905001	1	PATENT LABEL (US)	
19	LJ4421001	1	MARKING LABEL N/S (Norway/Sweden)	
19	LJ4541001	1	HOT LINE LABEL (Swiss)	
19	UH3297001	1	C-TICK MARK (Australia)	
20	LJ5826001	1	MYLAR LABEL ZLE CAN-A	
20	LJ5670001	1	MYLAR LABEL ZLE US-A	
21	LJ5827001	1	MYLAR LABEL ZLE CAN-B	
21	LJ5672001	1	MYLAR LABEL ZLE US-B	

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-060/061

## 7.MAIN PCB

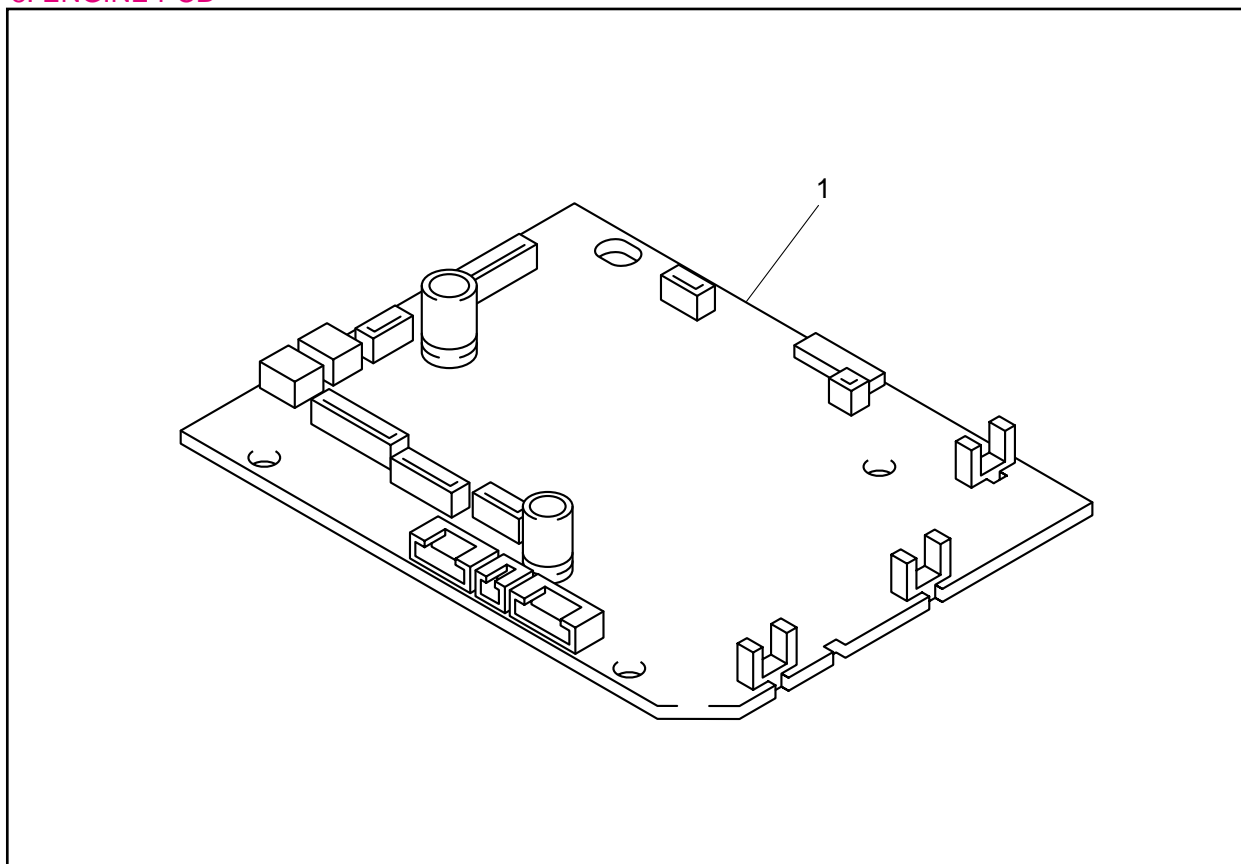


MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-101/103

## 7. MAIN PCB

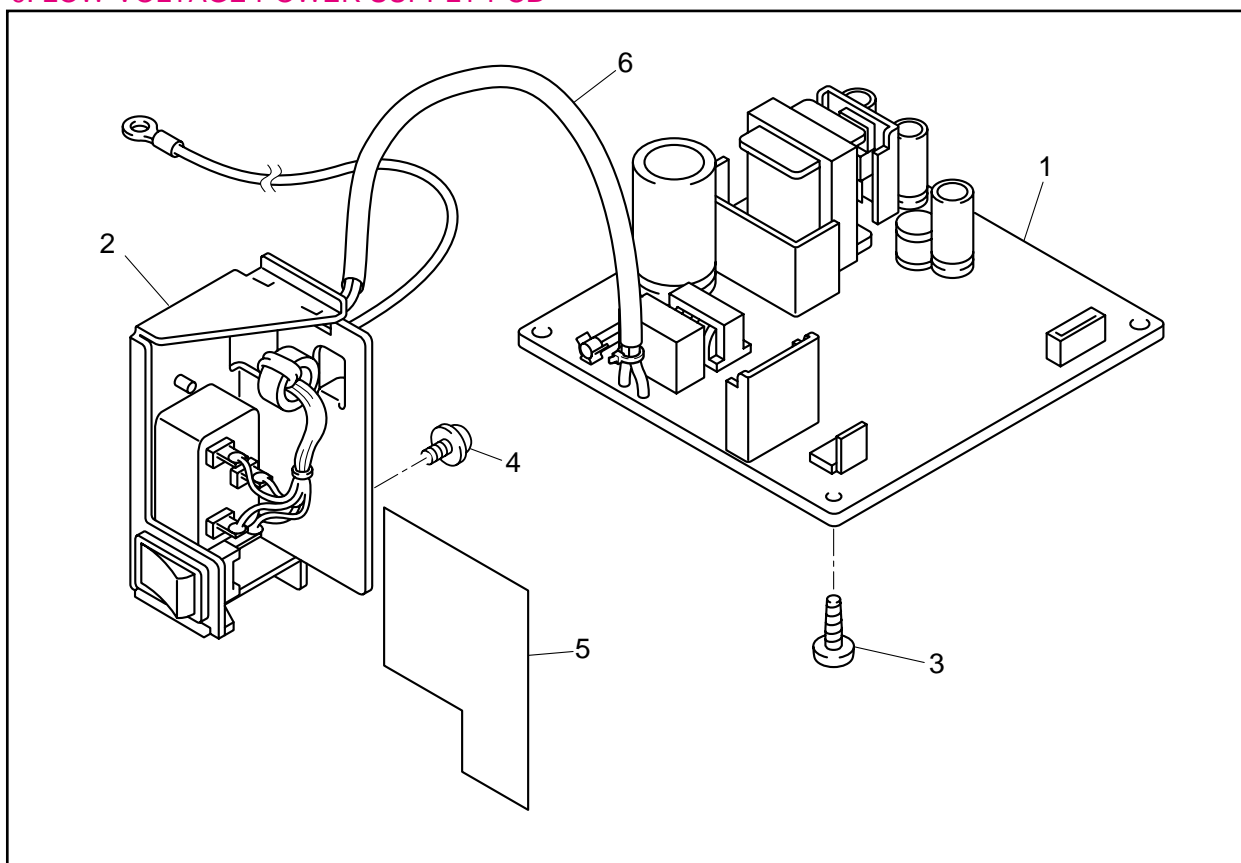
REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ8840001	1	MAIN PCB ASSY 1230 CAN	B512130-2	
1	LJ8840005	1	MAIN PCB ASSY 1230 EU	B512130-2	
1	LJ8811001	1	MAIN PCB ASSY 1440	B512130-2	
1	LJ8811005	1	MAIN PCB ASSY 1440 EU	B512130-2	
1	LJ8880001	1	MAIN PCB ASSY 1440 HEB	B512130-2	
1	LJ8819001	1	MAIN PCB ASSY 1450	B512134-1	
1	LJ8819005	1	MAIN PCB ASSY 1450 EU	B512134-1	
1	LJ8819006	1	MAIN PCB ASSY 1450 DEN	B512134-1	
1	LJ8839001	1	MAIN PCB ASSY 1470N	B512049-2	
1	LJ8839005	1	MAIN PCB ASSY 1470N EU	B512049-2	
1	LJ8839006	1	MAIN PCB ASSY 1470N DEN	B512049-2	
1-1	LJ8874001	1	MASK ROM 1230/1440		
1-1	LJ8881001	1	MASK ROM 1440 HEB		
1-1	LJ8873001	1	MASK ROM 1450		
1-2	LJ8871001	1	MASK ROM 1470N LOW		
1-3	LJ8872001	1	MASK ROM 1470N HIGH		
2	LJ8870001	1	SIMM 4M (1450/1470N)		

## 8. ENGINE PCB



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-151

## 9. LOW-VOLTAGE POWER SUPPLY PCB



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-200



### 8. ENGINE PCB

REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ8804001	1	ENGINE PCB ASSY 1440	B512136-1	
1	LJ8805001	1	ENGINE PCB ASSY 1450	B512136-1	

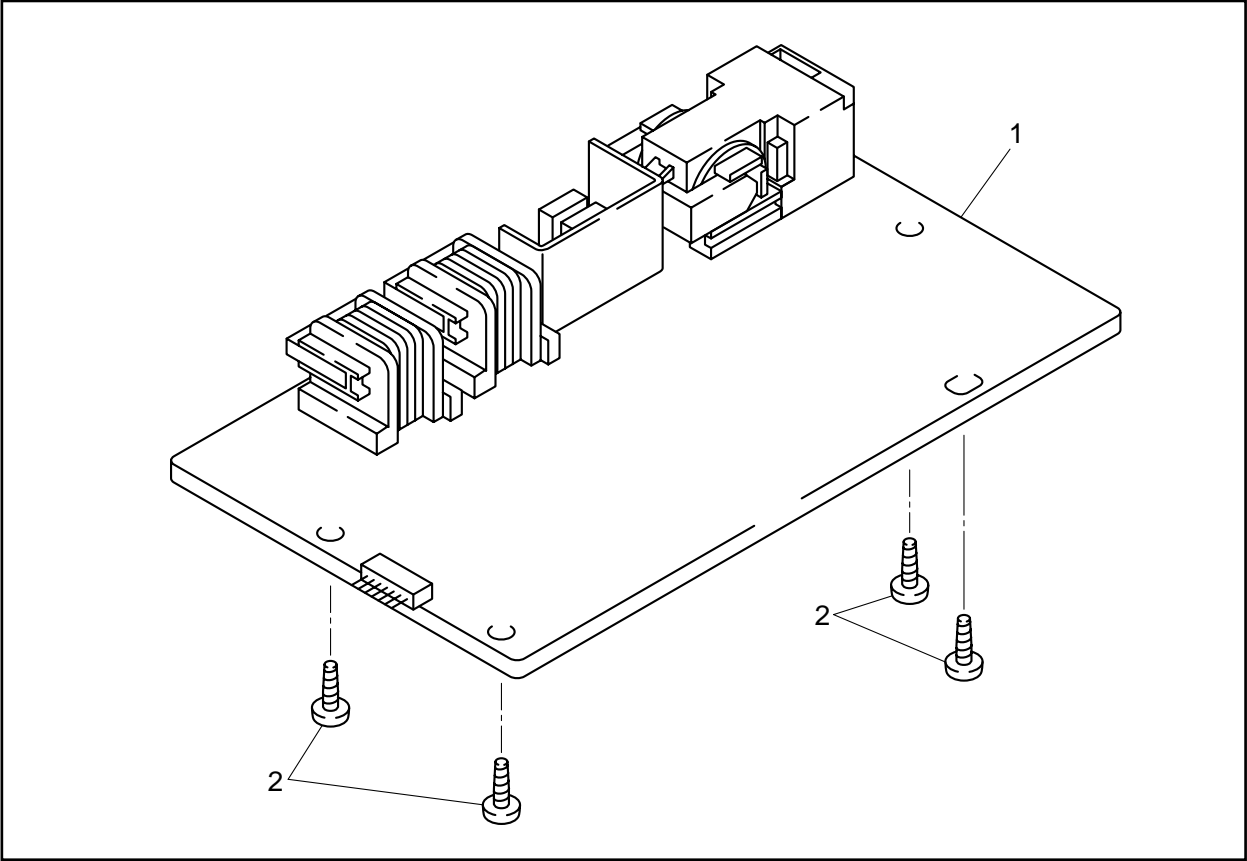
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-151

### 9. LOW-VOLTAGE POWER SUPPLY PCB

REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ8855001	1	PS PCB ASSY ZLE,115V		
1	UK4429001	1	PS PCB ASSY,230V		
2	UK4426001	1	INLET UNIT, 115V		
2	UK4430001	1	INLET UNIT, 230V		
3	085320816	1	TAPTITE, BIND S M3X8		
4	087320616	1	TAPTITE, CUP S M3X6		
5	LJ4756001	1	AC INLET FILM		
6	LJ8330001	1	PROTECTION TUBE		

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-200/201

10. HIGH VOLTAGE POWER SUPPLY PCB



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-220

11. AC CORDS

1A		1G	
1B		1H	
1C		1I	
1D			
1E			
1F			

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-230

#### 10. HIGH-VOLTAGE POWER SUPPLY PCB

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LJ5831001	1	HIGH-VOLTAGE PS ASSY (SP)	
2	085411215	4	SCREW BIND B TITE M4X12	

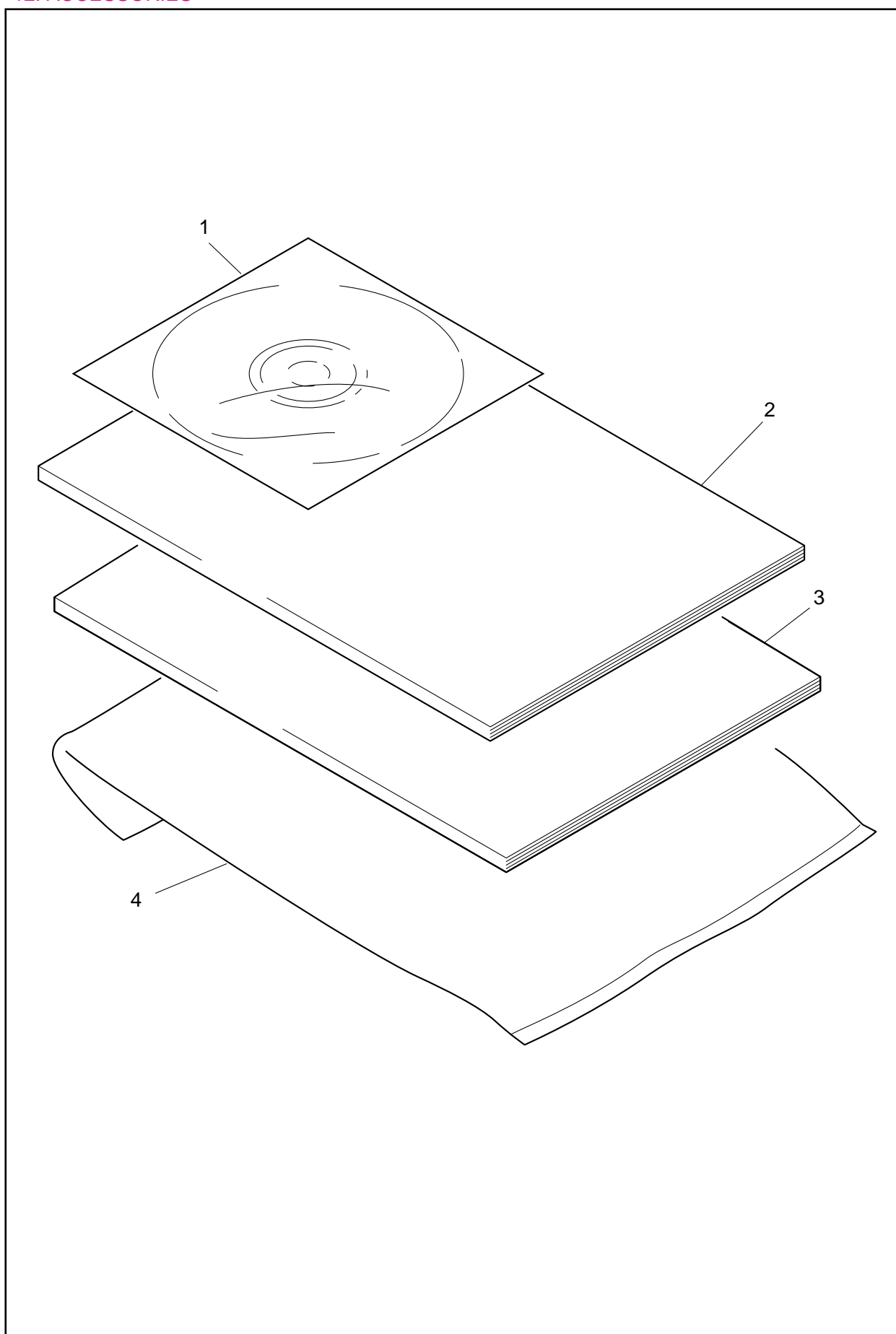
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-220

#### 11. AC CORDS

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1A	UH1051001	1	AC CORD, UL/CSA	
1B	UK4503001	1	AC CORD ASSY, SAA	
1C	UK4502001	1	AC CORD ASSY, SEV	
1D	UK4099001	1	AC CORD, CHLI	
1E	UH1054001	1	AC CORD, BS	
1F	U34322001	1	AC CORD #6, ISRAEL	
1G	UK4094001	1	AC CORD, DEMKO	
1H	UK4501001	1	AC CORD ASSY, VDE	
1I	LJ8288001	1	AC CORD ASSY, SOUTH AFRICA	

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-230

## 12. ACCESSORIES



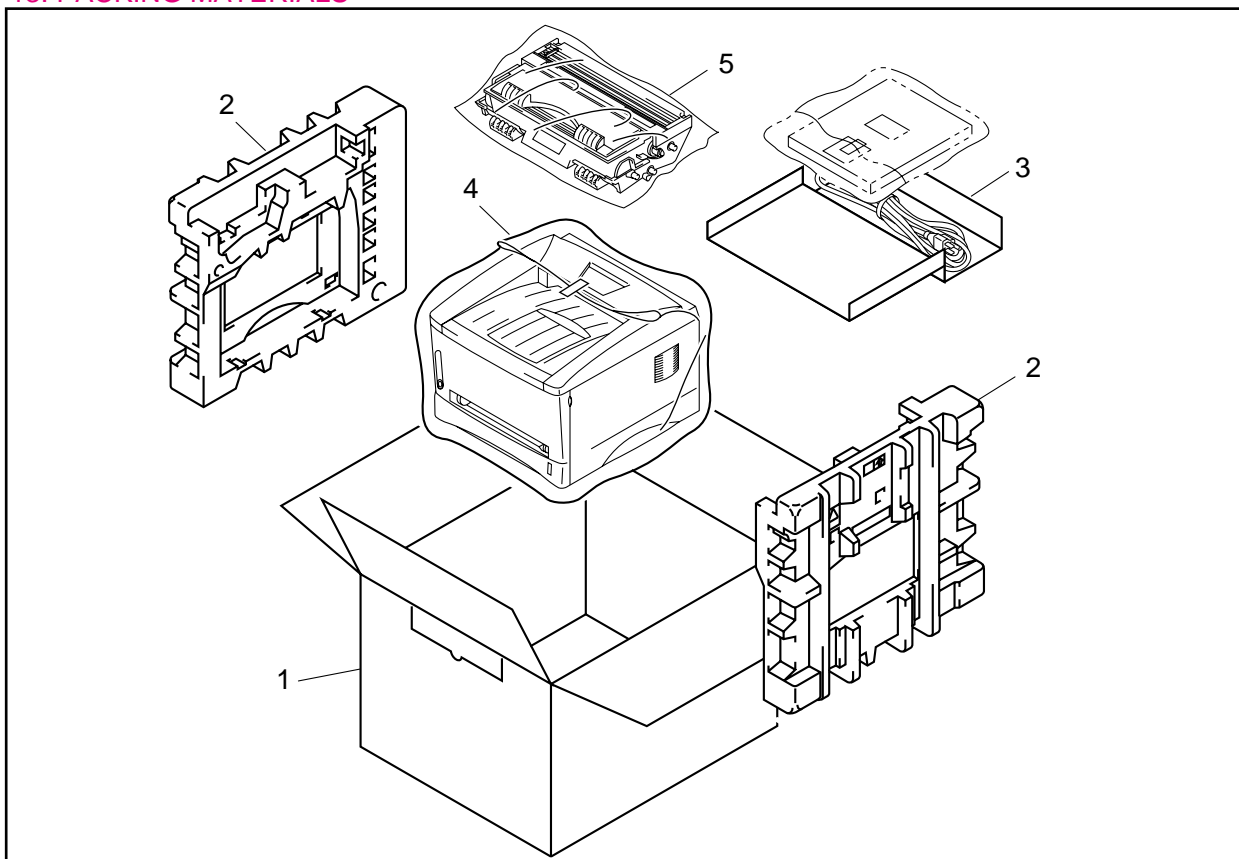
MODEL HL-1230/1440/1450/14700N 84U-Z31/Z32/Z33/Z34-920

## 12. ACCESSORIES

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LJ5659001	1	CD ASSY ZLE	
2	LJ5660001	1	SET GUIDE ENG	
2	LJ5721001	1	SET GUIDE FRE	
2	LJ5708001	1	SET GUIDE GER	
2	LJ5794001	1	SET GUIDE NOR	
2	LJ5798001	1	SET GUIDE DUT	
2	LJ5805001	1	SET GUIDE DEN	
2	LJ5811001	1	SET GUIDE SPA	
2	LJ5813001	1	SET GUIDE ITA	
2	LJ5817001	1	SET GUIDE SWE	
2	LJ5809001	1	SET GUIDE POR	
2	LJ5820001	1	SET GUIDE JPN E	
3	LJ5745001	1	NETWORK SET GUIDE ENG	
3	LJ5843001	1	NETWORK SET GUIDE FRE	
3	LJ5746001	1	NETWORK SET GUIDE GER	
3	LJ5847001	1	NETWORK SET GUIDE NOR	
3	LJ5844001	1	NETWORK SET GUIDE DUT	
3	LJ5849001	1	NETWORK SET GUIDE DEN	
3	LJ5846001	1	NETWORK SET GUIDE SPA	
3	LJ5845001	1	NETWORK SET GUIDE ITA	
3	LJ5848001	1	NETWORK SET GUIDE SWE	
3	LJ5850001	1	NETWORK SET GUIDE POR	
3	LJ5823001	1	NETWORK SET GUIDE JPN E	
4	LJ4961001	1	BAG, 215X350H	

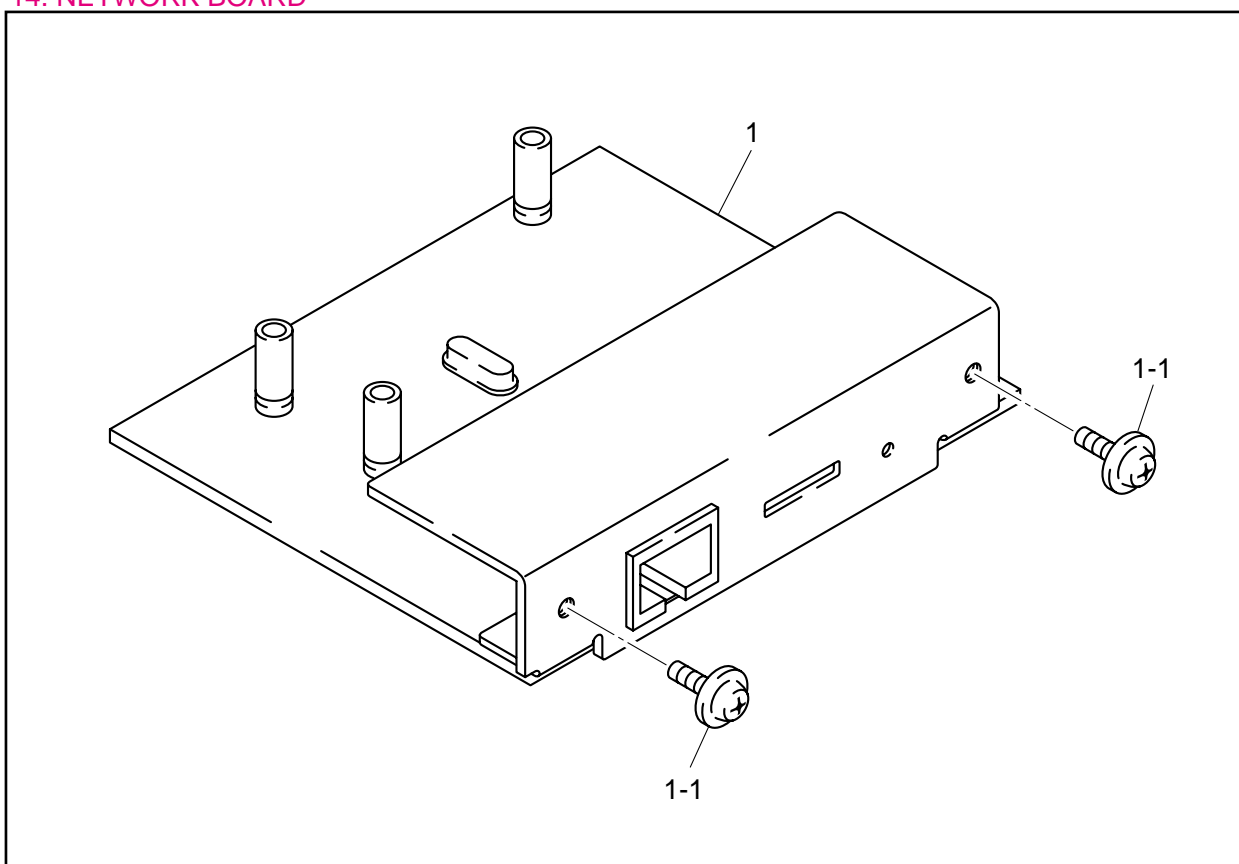
MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-920

### 13. PACKING MATERIALS



MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-930

### 14. NETWORK BOARD



MODEL HL-1470N 84U-Z34-150

### 13. PACKING MATERIALS

REF.NO.	CODE	Q'TY	DESCRIPTION	REMARK
1	LL0465001	1	CARTON, HL-1230 CAN	
1	LL0466001	1	CARTON, HL-1230 EUR	
1	LL0453001	1	CARTON, HL-1440 US	
1	LL0454001	1	CARTON, HL-1440 EUR	
1	LL0455001	1	CARTON, HL-1450 US	
1	LL0456001	1	CARTON, HL-1450 EUR	
1	LL0467001	1	CARTON, HL-1470N US	
1	LL0468001	1	CARTON, HL-1470N EUR	
2	UE2280001	1	STYROFORM PAD ASSY, LGL	
2	LJ4038001	1	STYROFORM PAD ASSY, A4	
3	UE2283001	1	ACCESSORY CARTON	
4	LJ5584001	1	BAG, 700X800H	
5	LJ5557001	1	PROCESS BAG 400X480	

MODEL HL-1230/1440/1450/1470N 84U-Z31/Z32/Z33/Z34-930

### 14. NETWORK BOARD

REF.NO.	CODE	Q'TY	DESCRIPTION	SYMBOL	REMARK
1	LJ8059001	1	BRNET PCB UNIT		
1-1	087320616	2	TAPTITE, CUP S M3X6		

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